



A.L. HANSEN MFG. CO.

5037 RAVENSWOOD AVE.

CHICAGO, ILL.

# A. L. HANSEN MFG. CO.

5037 RAVENSWOOD AVENUE

CHICAGO, ILL.

## NET PRICES

Page	REFRIGERATOR LOCKS	Net Price	Lots of
		Each	Six
4-5	No. 66 Slam & Take-Up Lock .....	\$ 8.34 ea.	\$ 7.50 ea.
6	No. 67 Refrigerator Lock (outside parts only) .....	9.00 ea.	8.10 ea.
6	No. 68 Refrigerator Lock .....	11.67 ea.	10.50 ea.
7	No. 69 Refrigerator Lever Lock .....	6.67 ea.	6.00 ea.
8	No. 70 Refrigerator Lock .....	12.00 ea.	10.80 ea.
9	No. 70-D Refrigerator Lock (double doors) .....	12.00 ea.	10.80 ea.
10	No. 69-A Refrigerator Lock .....	10.00 ea.	9.00 ea.

	REFRIGERATOR HINGES	Net Price	Price Per
		Each	Dozen
11	No. 8 Refrigerator Hinge (steel) .....	\$ 1.17 ea.	\$ 1.05 ea.
11	No. 12 Refrigerator Hinge (steel) .....	1.33 ea.	1.20 ea.
11	No. 15 Refrigerator Hinge (malleable) .....	1.33 ea.	1.20 ea.
11	No. 16 Refrigerator Hinge (steel) .....	1.67 ea.	1.50 ea.
11	No. 19 Refrigerator Hinge (steel) .....	2.00 ea.	1.80 ea.

	HANDLES	Net Price	Price Per
		Per Pair	Doz. Pair
12	No. 71 Offset Handle (japanned) .....	\$ .50 pr.	\$ .45 pr.
12	No. 71 Offset Handle (nickel plated) .....	.83 pr.	.75 pr.
12	No. 71 Offset Handle (chrome plated) .....	1.00 pr.	.90 pr.
12	No. 72 Handle (with locking bars) .....	.40 ea.	.35 ea.
12	No. 73 "T" Handle (embossed) .....	Price on Request	
12	No. 75 "T" Handle (japanned) .....	.33 pr.	.30 pr.
12	No. 75 "T" Handle (nickel plated) .....	.67 pr.	.60 pr.
12	No. 77 "T" Handle (japanned) .....	.50 pr.	.45 pr.
12	No. 77 "T" Handle (nickel plated) .....	.83 pr.	.75 pr.
12	No. 79 "T" Handle (embossed) .....	Price on Request	

	CAB LOCKS	Net Price	Price Per
		Per Pair	Doz. Pair
15	No. 54 Cab Lock .....	\$ .87 pr.	\$ .78 pr.
15	No. 55 Cab Lock .....	1.00 pr.	.90 pr.
15	No. 57 Cab Lock .....	.83 pr.	.75 pr.
15	No. 58 Cab Lock .....	.83 pr.	.75 pr.
16	No. 59 Cab Lock .....	1.33 pr.	1.20 pr.
16	No. 60 Extension Lock .....	2.50 pr.	2.25 pr.
16	No. 63 Mortise Lock .....	1.67 pr.	1.50 pr.
16	No. 65 Extension Lock (heavy duty) .....	2.83 pr.	2.55 pr.



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From the collection of:

Mike Jackson, FAIA





**J**UST as the locomotive, steamship, airplane, automobile and truck have kept pace with the needs of a new era, Hansen Commercial Body Hardware has remained as modern as the industry it serves. Hansen is continually developing new designs in body hardware, the refrigerator door locks in a complete line—the first to be completed and standardized—being a recent example. These locks are far in advance of any previously or since made, in keeping with Hansen standards.

Other Hansen products that reflect modernness of design include adjustable corner braces and a complete series of slamming door locks. Now comes the most recent one—an even newer departure—the Hansen SLAMMING REFRIGERATOR Door Lock. It not only slams—but takes up and compresses.

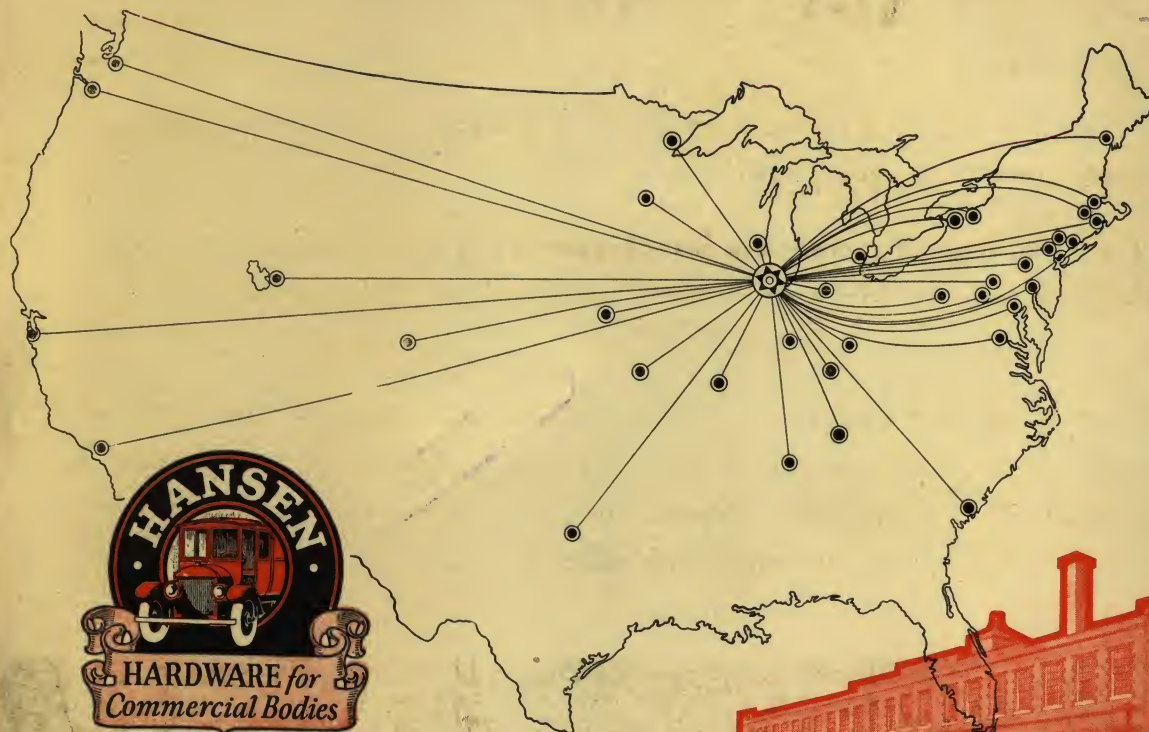
Hansen design has not only KEPT pace in modernness of conception—it has SET the pace. Body builders who wish to be certain their hardware is as up-to-date as their bodies, will standardize on HANSEN.





A. L. HANSEN MFG. CO. 5037 RAVENSWOOD AVE., CHICAGO, ILL.

# COMMERCIAL TRUCK, BUS BODY and REFRIGERATOR BODY HARDWARE



The spots in the above map show points at which stocks of Hansen Hardware are carried by the principal jobbers. The star indicates the central location of the Hansen plant at Chicago.

It is the policy of this company to ship all orders for standard products or parts within twenty-four hours after receipt of order. This policy assures uniformly prompt service.

This catalog illustrates and describes the complete line of Hansen Hardware. Index and prices will be found in the back pages.

The Hansen Line of Commercial Body Hardware includes Window Regulators, Refrigerator Door Locks, Cab Locks, Rotary Locks for Side or Rear Doors, Sliding Door Hardware, Slamming Door Locks, Lock Handles, Door Hinges and Adjustable Corner Braces.



## HANSEN

### Features

1. Quality thruout.
2. Moderate cost.
3. Easy application.
4. Modern design.
5. Serviceability.

Hansen Hardware is noted for its simplicity of design, dependable operation and exceptional durability

*If It's Hansen . . . It's Modern!*

Above is the Hansen plant which is modernly equipped for quantity production and prompt shipments.





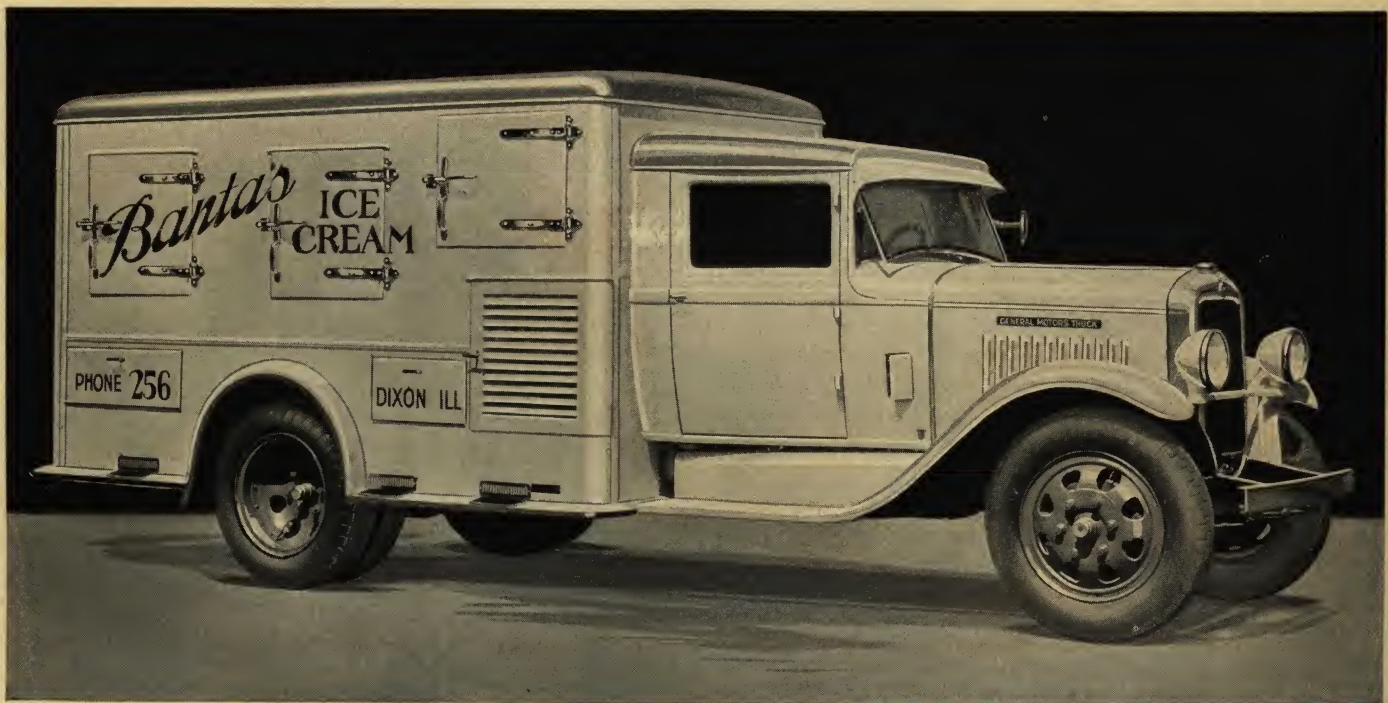
# REFRIGERATOR BODY HARDWARE

Prior to 1931 the builder of refrigerator bodies could not get a complete refrigerator lock of uniform design from any

source. He used makeshift hardware, getting various parts from scattered sources, and often made one or more parts in his own shop.

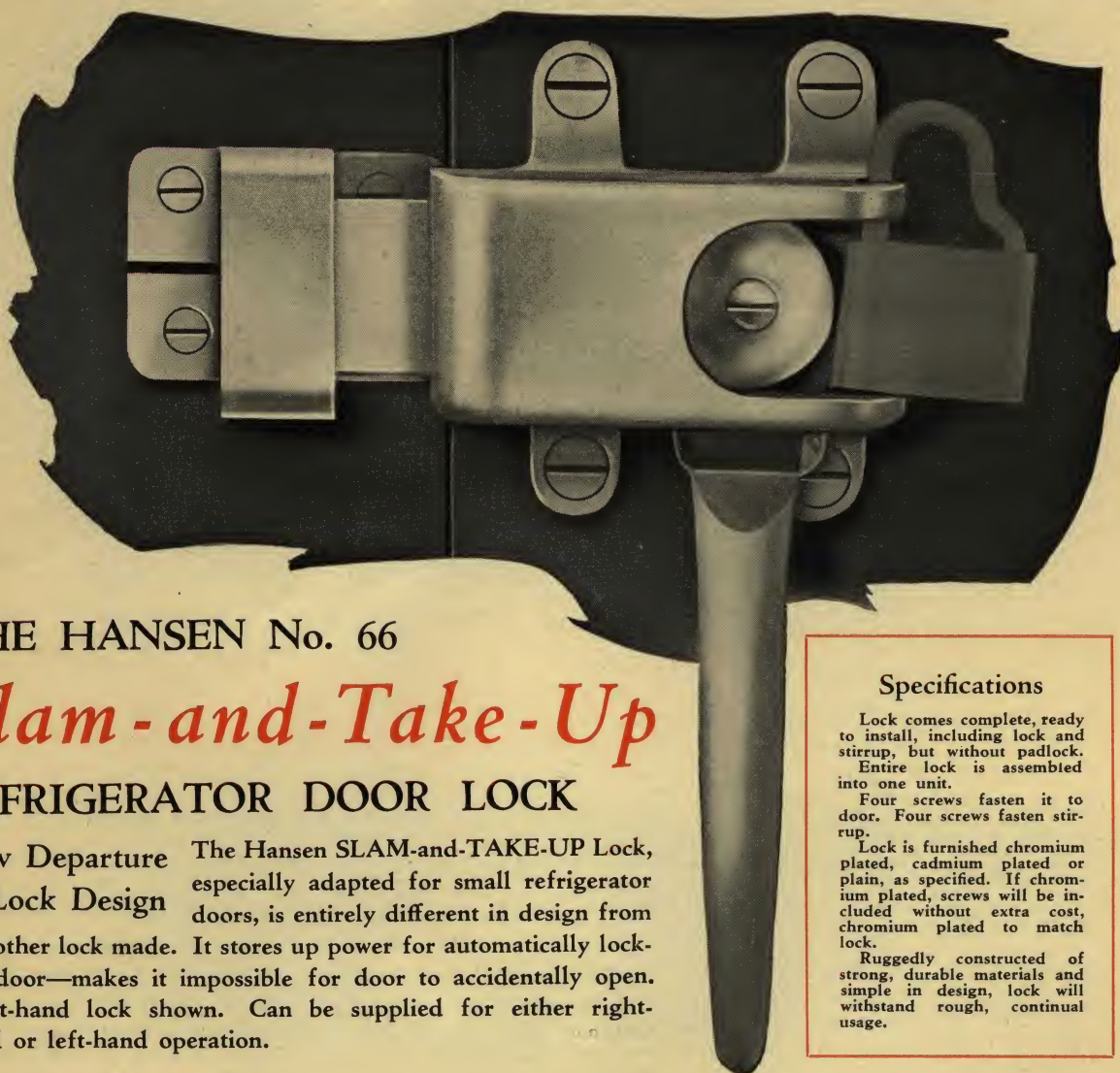
Hansen saw the need of a complete line of refrigerator body hardware and early in 1931 offered refrigerator locks, of uniform, standardized design, complete, ready to install.

The Hansen Line of Refrigerator Body Hardware—the first of its kind and the most complete—has such outstanding features of design and manufacture, that nothing even approaching its adaptability or perfection has yet been devised. Its instant acceptance and its widespread use amply indorse its merits.



*This mechanically refrigerated body with its symmetrical streamlines, was built by the Batavia Body Co., Batavia, Ill. The three side compartment refrigerator doors are fitted with Hansen No. 67 Locks. Outside handles and No. 15 hinges are chromium plated.*





## THE HANSEN No. 66

# *Slam-and-Take-Up*

## REFRIGERATOR DOOR LOCK

**New Departure in Lock Design** The Hansen SLAM-and-TAKE-UP Lock, especially adapted for small refrigerator doors, is entirely different in design from any other lock made. It stores up power for automatically locking door—makes it impossible for door to accidentally open. Right-hand lock shown. Can be supplied for either right-hand or left-hand operation.

### Specifications

Lock comes complete, ready to install, including lock and stirrup, but without padlock. Entire lock is assembled into one unit.

Four screws fasten it to door. Four screws fasten stirrup.

Lock is furnished chromium plated, cadmium plated or plain, as specified. If chromium plated, screws will be included without extra cost, chromium plated to match lock.

Ruggedly constructed of strong, durable materials and simple in design, lock will withstand rough, continual usage.

### Stored-Up Power Automatically Locks Door

Pulling handle outward "cocks" the striker bolt at a 45-degree angle and stores up the energy exerted in opening door. The striker bolt remains at this angle while door is opened. When door is slammed, the striker bolt contacts the striker plate, releasing the stored-up power. The striker bolt then instantly returns to its locked position, forcing the door tight-shut.

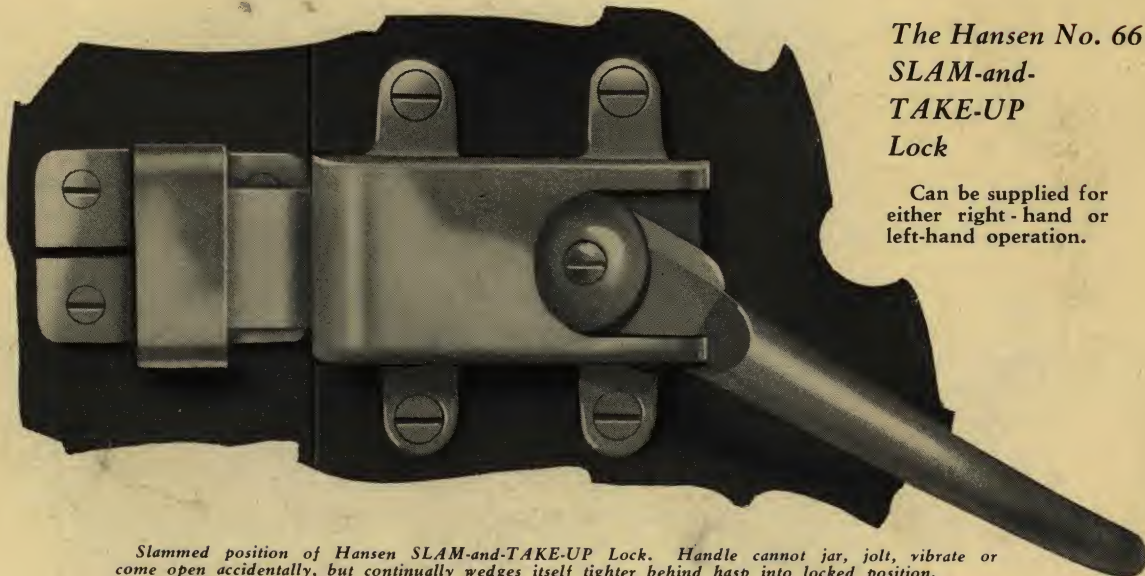
### Door Cannot Open Accidentally

When door is slammed, the handle drops from horizontal to slammed position, and with each jolt or vibration of truck becomes more tightly wedged behind hasp. This downward wedging action prevents handle jarring out of place and accidental opening of door.

### Special Design Compresses Door Airtight

With each jar or vibration of truck, the handle wedges itself downward from a 45-degree angle, which it reaches when slammed, and from which point the driver presses the handle until straight down, compressing door airtight by means of cam-leverage principle. Compression is not caused by springs. The handle can then be locked with padlock provided by user. Lug-leverage action easily breaks frost seal when opening door.





*The Hansen No. 66  
SLAM-and-  
TAKE-UP  
Lock*

Can be supplied for  
either right-hand or  
left-hand operation.

*Slammed position of Hansen SLAM-and-TAKE-UP Lock. Handle cannot jar, jolt, vibrate or come open accidentally, but continually wedges itself tighter behind hasp into locked position.*

## Slams—Takes Up—Compresses

*Easier Slamming—Positive Closing—Airtight Doors*

### Not Only Slams But "Takes Up"

A principal feature of the Hansen Slam-and-Take-Up Lock is its "take-up". The special design of the lock gives added leverage to the striker bolt which is held at constant tension against the stirrup when door is closed. This compressing action is added to as the handle jolts downward behind hasp:

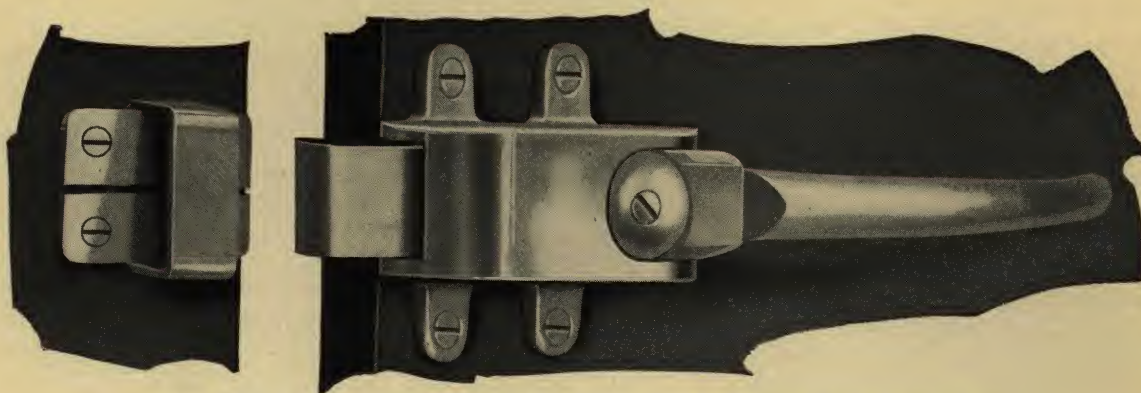
### Final Compressing Action Insures Airtight Door

The door, already tight-shut due to the combined action of the tension-leverage feature and wedging tendency of handle, is further compressed by pushing

the handle completely downward into its "home" position. The door is then air-tight.

### Stored-Up Power Makes Trigger Action Possible

The power that is stored up when door is opened makes possible the trigger action of the striker bolt. A mere touch of the striker bolt against the striker plate changes the lock from an unlocked to locked position. This makes it easier to close door, as striker bolt does not have to be forced inward as with other locks.



*Open position of Hansen SLAM-and-TAKE-UP Lock. Handle has just been pulled outward and striker bolt "cocked" at 45-degree angle, storing up power. This power is released when door is slammed, giving trigger action to striker bolt and providing compression action.*





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No. 68 Hansen Refrigerator Door Lock (right-hand). Inside rods and fittings. Only the handles show outside. Outside parts, known as No. 67, can be supplied separately.



This is a wet-ice type refrigerator body, one of a large fleet designed and used by one of the foremost meat packers. Has two doors, one in rear and one at side. Left-hand No. 68 Lock is used on rear door and right-hand No. 68 on side door. The No. 15 Hinges are painted to blend with color of body.

## No. 68 Inside Lock—Widely Used

MEAT packers and other users of refrigerated and insulated bodies use the No. 68 Hansen Lock. Outside handles and escutcheon are chromium plated. Inside parts galvanized. Inside rods may be cut to any desired length. Locking handle is  $12\frac{1}{2}$ " long, with  $6\frac{1}{2}$ " curved grip. Handle extends 7" beyond locking device on handle. Locking rods are inside the body; lever and door pull handles on outside. This lock has proved its practical value on thousands of bodies.

### SPECIAL FEATURES

- 1 Lever handle is solid with rod which attaches to inside rods and operates locking mechanism.
- 2 The pull handle is solid with the end brackets which fasten to door. It includes wedge-shaped tongue over which lever handle moves, pushing door tight-shut.
- 3 The locking handle, which is  $12\frac{1}{2}$ " long, extends 7" beyond handle rest and locking device, thus protecting hand.
- 4 Inside galvanized rods may be cut to required length for doors of any height. Rods may be omitted on small doors.



This body—one of the largest and finest built to date—makes 23-hour daily trips in Michigan. It was built by the Square Deal Commercial Body Co., Detroit, Mich. Each side door is equipped with the No. 68 Refrigerator Door Lock. On the double rear door the No. 70-D Lock, entirely chromium plated, is used. Hinges used are the No. 15.





One of the most attractive bodies built. Body built by the York-Hoover Body Corp., York, Pa. Ice cream compartment doors fitted with the No. 69 Hansen lock.

## Small Refrigerator Locks That Compress Doors Airtight

**E**SPECIALLY adapted for small-sized doors such as used on ice cream bodies, as they compress doors airtight. The positive, easy closing and the compressing action for which No. 69 lock is noted, is due to the lug-leverage principle used. The lug attached to an 11-inch handle becomes a powerful lever when operating against the stirrup. This leverage is just as effective when opening as when closing door.

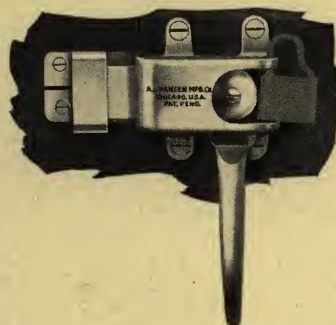
A lift of the handle from inside of hasp and a jerk outward opens door. The lug-leverage easily breaks frost seal. Reversing this operation closes door with one swift, easy movement of arm. A small padlock provided by user is snapped into place by driver.

The No. 66 SLAM-and-TAKE-UP LOCK, which not only slams but takes up and compresses, is adaptable to small refrigerator doors. See illustrations below. Right-hand shown. Can be furnished for either right-hand or left-hand operation.



No. 66  
SLAM-and-TAKE-UP  
LOCK  
(Right-hand)  
(Open Position)

The No. 66 Slam-and-Take-Up Lock is primarily designed for use on small refrigerator doors such as on ice cream bodies. It is not merely a slamming lock, but in addition *takes up and compresses*. Handle "cocks" striker bolt when door is opened. This stores up power which provides the trigger action of striker bolt when it strikes striker plate. This feature insures easier, more positive closing.



No. 66  
SLAM-and-TAKE-UP  
LOCK  
(Right-hand)  
(Locked Position)

After the No. 66 Lock has been slammed shut and handle pushed into full closed position, padlock provided by user may be used.



No. 69 Lock  
Right-Hand  
(Unlocked)

No. 69 Lock has chromium plated handle, stirrup and handle hasp, or all parts plain finish, as specified. Handle includes projection for locking with padlock when projection is inserted in hasp. Padlock is left in hasp when lock is open. Right hand shown. Can be supplied for either right-hand or left-hand operation.





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The body pictured above was built by the Maremont Mfg. Co., Chicago, Ill. The front compartment is not refrigerated. The rear door is fitted with the No. 70 Refrigerator Door Lock and No. 15 Hinges.

### Meat Packers (and others) Specify No. 70 Hansen Lock

SO EASY to operate with its lug-leverage action, and so easy to install with its simple construction, the No. 70 Hansen Refrigerator Door Lock is specified by fleet operators for refrigerated and insulated bodies. One movement of driver's arm closes door and puts handle in locked position, when lock is quickly inserted. Lock has few moving parts—only rod and attachments. Two hardened steel cup-point set screws are used for fastening lugs to rod. Nothing to get out of order.

#### Any Size Door

The lugs (top, bottom and center) may be adjusted to any point on a  $\frac{3}{8}$ " square rod. Standard length of this rod is 48" and may be cut to any desired length for fitting to door of any height. Longer rods available, if specified.

#### Powerful Lug Action

Center lug is fastened to handle. This handle operates all three lugs which provide leverage for easily compressing door airtight or breaking frost seal. Lugs are adjustable to any position on rod.

#### No. 70 LOCK (Right-hand)

Right-hand shown, but can be supplied for left-hand operation.



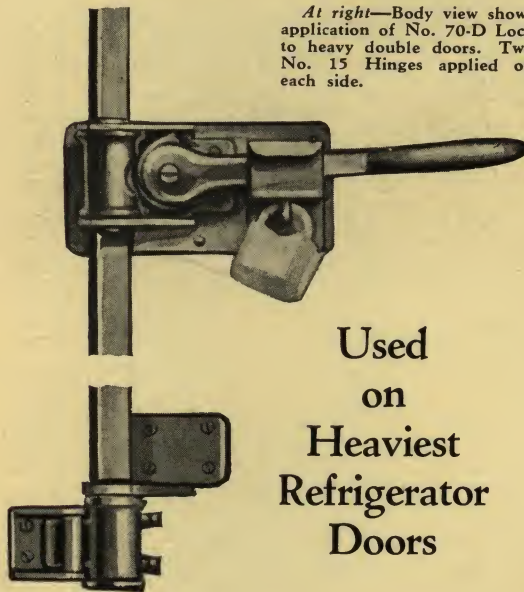
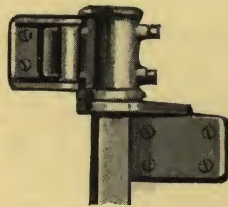
This body was constructed by the Federal Motor Truck Co., Detroit, Mich. It was built from specifications of Armour and Company. The rear door is fitted with a left-hand No. 70 Lock. A right-hand No. 70 is on the side door. No. 15 Hinges are on both doors.



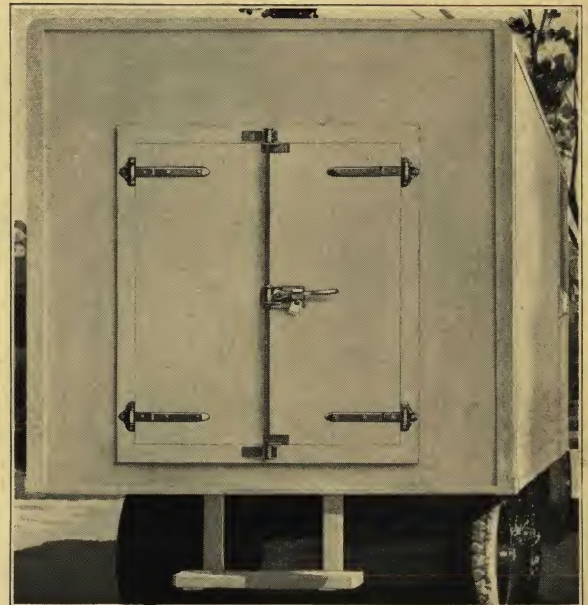
### No. 70-D Lock

*At left*—Outside double-door lock. Exceptionally strong, for use on heavy refrigerator body doors. Size of door determines rod length. Handle and hasp chromium plated. Lock comes complete, ready to install.

*At right*—Body view shows application of No. 70-D Lock to heavy double doors. Two No. 15 Hinges applied on each side.



Used  
on  
Heaviest  
Refrigerator  
Doors



NOTE the ruggedness of the No. 70-D Lock. It has the fewest possible moving parts. Nothing gets out of order. Hardened steel bearings. Two cup-point hardened steel set-screws used for fastening each lug to rod. Lugs may be adjusted to any point on rod. Rod may be cut to any desired length.



Robbins and Burke, Cambridge, Mass., built this body on a Mack chassis. Note unique method of mounting gasoline tank on side of chassis; also end gate. Hansen hardware is used, the No. 70 Lock on the side door and No. 70-D on the double rear doors.





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# FLEXIBILITY

A Feature of Hansen Hardware  
for Refrigerator Truck Bodies

Fits Doors of  
All Sizes

Each No. 70 Lock is equipped with a  $\frac{5}{8}$ " rod, the standard length of which is 48". Longer lengths, when specified. This rod may be cut to any length to fit doors of any height.

Adjustable  
Handle

The handle is adjustable to any position on the rod—center, above center, below center, or at bottom—and may be set at any angle, or horizontal.

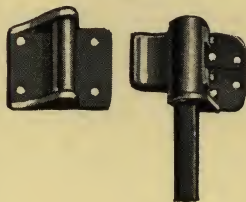
Three Locks  
in One

The No. 70 Lock may be used with one, two or three lugs, making it extremely adaptable to fit various body building needs. (See illustrations on this page.)

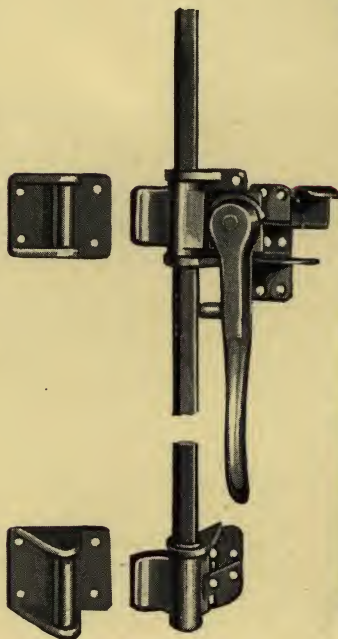
At left—

No. 69 Lock  
(Right-hand)  
With One Lug

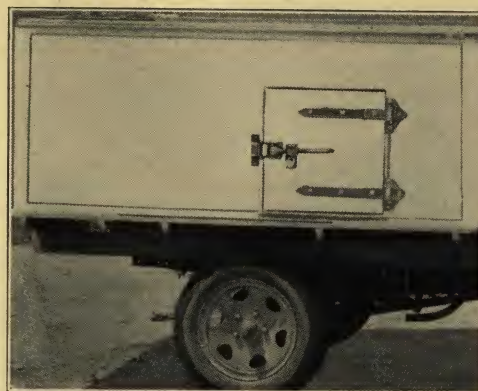
Above—the No. 69, an adaptation of the No. 70 Lock, has only one lug. Requires no rod.



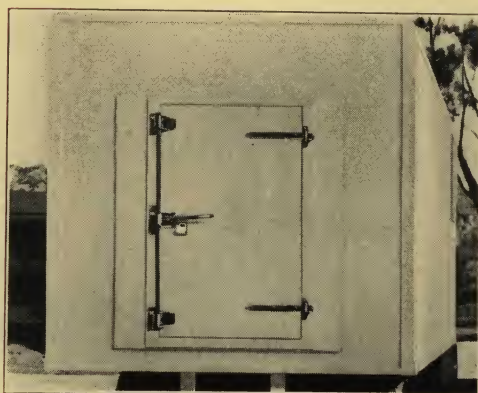
No. 69-A Lock  
(Right-hand)  
Two Lugs



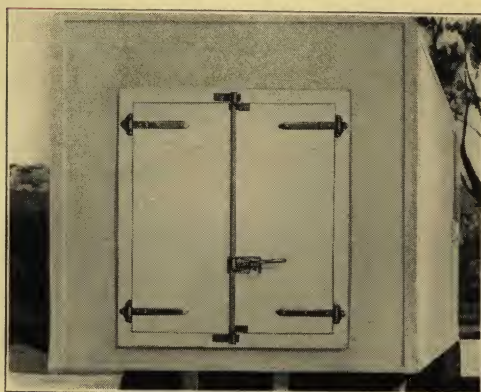
No. 70 Lock  
(Right-hand)  
With Three Lugs



Side door, small. No. 69 Lock, right-hand, attached at center of door.



End door, single. No. 70 Lock, right-hand. Handle assembly attached at CENTER of door.



End door, double. No. 70-D Lock. Handle assembly BELOW center of door.





# HANSEN HINGES

Hinges supplied chromium plated, cadmium plated or plain, as specified. Hinges can be supplied in four lengths—8", 12", 16" and 20". Length is measured from hinging point to tip of hinge.

**S**TEEL Hinges—think of it! Now you can get a hinge made entirely of steel—the HANSEN Leaf-Type Hinge, especially designed for use on refrigerator doors—large, medium or small.

Hinge is strongest where greatest strength is required. At base of hinge, where strain or load is greatest, are extra leaves. At center where less strength is necessary, hinge is two-ply. At end, where still less strength is needed, there is only one leaf. Two-leaf type hinge has two leaves at the base and graduates to one leaf.

Hardened steel thrust bearing and hardened steel bolt insure long service with least possible wear. Leaves and bracket are spot welded.



**No. 8** Leaf-Type Hinge, 2-ply. Size, 8" long,  $1\frac{1}{4}$ " wide,  $\frac{3}{8}$ " thick at two-ply section,  $\frac{3}{16}$ " thick at bottom leaf. Two hardened steel thrust bearings and bolt. Leaves spot welded. Entire hinge made of steel. Plain for painting. Cadmium or chromium plated, at extra cost, if specified.



**No. 12** Leaf-Type Hinge, 3-ply. Size, 12" long,  $2\frac{1}{4}$ " wide,  $\frac{9}{16}$ " thick at third leaf,  $\frac{3}{8}$ " thick at second leaf, and  $\frac{3}{16}$ " thick at bottom leaf. Hardened steel thrust bearing and bolt. Leaves spot welded. Entire hinge made of steel. Plain for painting. Cadmium or chromium plated at extra cost, if specified.



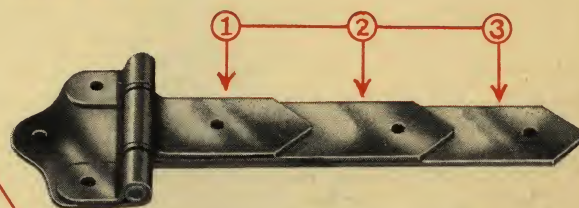
**No. 16** Leaf-Type Hinge, 3-ply. Size, 16" long,  $2\frac{3}{4}$ " wide,  $\frac{1}{2}$ " thick at top leaf,  $\frac{3}{8}$ " thick at second leaf, and  $\frac{3}{16}$ " thick at bottom leaf. Hardened steel thrust bearing and bolt. Leaves spot welded. Entire hinge made of steel. Hinge plain for painting. Cadmium or chromium plated, at extra cost, if specified.



**No. 15 Hinge**

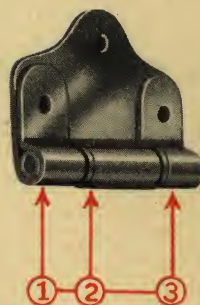
Size, 15" long,  $1\frac{1}{4}$ " wide. Malleable iron. Six holes for fastening to door. Holds heaviest doors securely in place. Plain for painting. Chromium plated at extra cost, if specified.

Round-head, chromium plated screws can be provided, at extra cost, for fastening hinges to door.



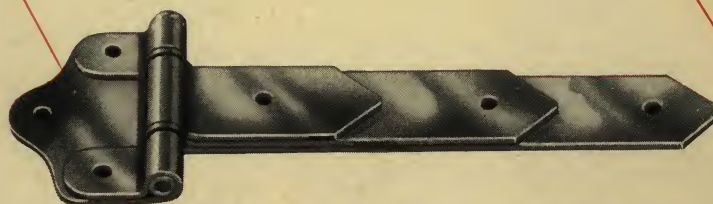
**Three-Leaf Construction**

Arrows in above panel point to the 3-ply construction of Hansen Leaf-Type Hinge, thus providing greatest strength where most needed. Leaves are spot-welded.



**Hardened Steel Thrust Bearings and Bolt**

To add to its length of service and to support the heaviest doors, yet resist wear, the Hansen Leaf-Type Hinge is fitted with Hardened steel thrust bearings and bolt. (1) Bolt. (2) and (3) thrust bearings.



**No. 19** Leaf-Type Hinge, 3-ply. Size, 20" long,  $2\frac{3}{4}$ " wide,  $\frac{3}{8}$ " thick at 3-ply section,  $\frac{3}{8}$ " thick at 2-ply, and  $\frac{3}{16}$ " thick at bottom leaf. Hardened steel thrust bearing and bolt. Leaves spot welded. Entire hinge made of steel. Hinge plain for painting. Cadmium or chromium plated at extra cost if specified.

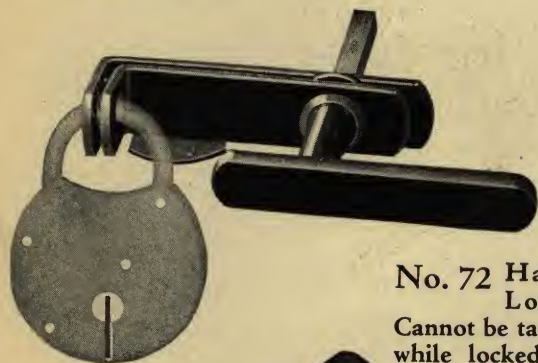




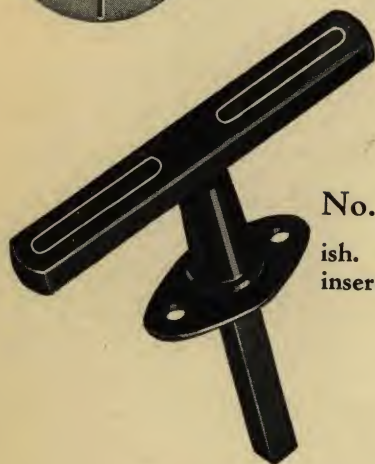
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# HANSEN HANDLES

for Cab and Body  
Door Locks



No. 72 Handle with  
Locking Bars.  
Cannot be tampered with  
while locked. All steel.  
Black japan finish. User  
provides padlock.



No. 77 Panel Handle.  
Black japan fin-  
ish. Two nickel-plated  
inserts. Very attractive.



No. 73 Embossed "T"  
Handle. All  
steel. Very durable.  
Neatly finished in black  
japan. Name in white  
letters on crossbar.



No. 71 Offset Handle.  
All steel. Black  
japan finish. Fits all  
standard locks. Attrac-  
tive. Strong. Durable.

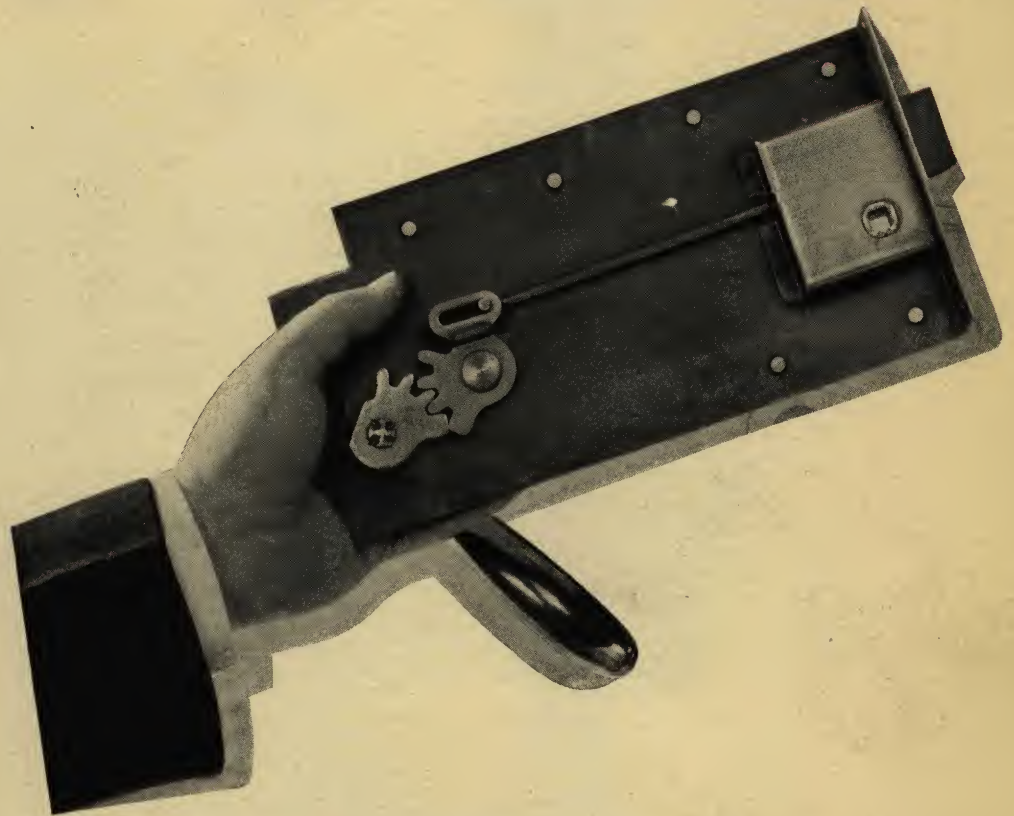


No. 75 All Steel "T"  
Handle. Solid  
steel. Black japan finish.  
Fits all standard locks.



No. 79 "T" Handle.  
Black japan  
finish. All steel. White  
letters sunk in face of  
crossbar.





# HANSEN LOCKS

for

CABS and BODIES

- Side Doors
- Rear Doors
- Sliding Doors
- Slamming Doors





A. L. HANSEN MFG. CO. 5037 RAVENSWOOD AVE., CHICAGO, ILL.

# HANSEN CAB LOCKS



**HANSEN'S  
EXCLUSIVE  
PATENT**

—the Die-Formed Bushing

The Die-Formed Bushing is a feature embodied only in Hansen Locks. This bushing being perfectly squared and made full depth of lock, holds handle firmly in place and prevents wobbling or rattling of handle. No rounding out of hole because bushing is made of steel.

**H**ANSEN Cab Locks are *better—more durable*—because being built especially for commercial body use, they must withstand rougher treatment. Doors on commercial bodies are opened and slammed oftener. Due to weave of truck bodies, doors become looser fitting, requiring wider striker bolts, which are a part of every Hansen Cab Lock.

An example of the severe service to which Hansen Locks are subjected is the dump-truck cab shown above. This cab is all steel, being used in conjunction with dump bodies in road construction, where chassis and cab receive roughest treatment. Because it insures safety, this type of door is being generally adopted. Wanting the best possible lock, most builders use HANSEN as standard on these jobs.

Hansen locks outlast the cabs on which used. They seldom if ever require any replacement parts. They are super-quality locks—better constructed—with no loose parts—easier to put on—and used by many leading companies, such as REO, AUTOCAR, LAFRANCE REPUBLIC, MIFFLINBURG, YORK-HOOVER, HIGHLAND and others.



# CAB LOCKS



**No. 55 Cab Lock**  
(Left-hand)

Applicable to narrowest door post, as lock is only 2" wide. Screw holes for attaching are set back away from edge to prevent splitting wood. Flange on face of lock makes it easy to install squarely on door. This flange takes much of the strain off screws when using pull handle to open door. Built-in pull handle integral with lock bushing, 1" striker bolt. No mortising required.

One of the most popular Hansen Locks, not only in the United States but in foreign countries. More than 100,000 in daily use. Even where cabs are in service as long as five years, the lock will outlast the cab on which used. Adaptable to all types of bodies. Economical. Durable. Dependable.



**No. 57 Cab Lock**  
**With Inside Handle**  
(Left-hand)

Requires no mortising or blocking. Can be applied to door frame 2" wide, as size of lock is 2" x 3 3/8". Inside handle is integral with bushing.



**No. 54 Cab Lock**  
(Right-hand)

No mortising or blocking. Coiled compression spring, 1-inch striker bolt. Die-formed bushing. Size of lock, 3" x 2 7/8".



**No. 58 Cab Lock**  
**Without Inside Handle**  
(Left-hand)

Same as No. 57 Cab Lock, except has no inside handle. High carbon tempered flat spring insures smooth, easy operation. Requires no mortising or blocking. Patented die-formed bushing.





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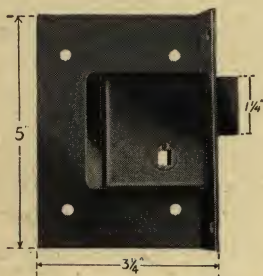
# HANSEN CAB LOCKS

No. 59  
CAB  
LOCK  
Long-  
Handle  
Type  
(Right-hand)



No. 59 Cab Lock  
Long Handle Type  
(Right-hand)

In wide use on half-doors and suburban bodies where "T" handle can be omitted. Steel handle, 4" long, integral with lock. Coiled compression spring. Die-formed bushing. Fits flat against the door. No mortising required.



No. 63 Mortise Lock

Made in one piece. Size, 5" x 3 1/4". Striker bolt, 1 1/4". Entirely self-contained and built along same simple, rugged lines as the No. 60 Lock. Die-formed patented bushing. Requires only six screws for applying to door.



No. 60 Extension Lock  
(Left-hand)

Made entirely in one piece, including inside handle. No loose parts to require fitting or adjusting. Hardened striker bolt 1 1/4" wide holds door solidly in place. Locking device for locking door inside. Matched rosettes on locking device and handle. Size, 5" x 10". 5 3/4" handle with 4" grip.



No. 60 Lock  
(Inside View)

No other make of lock is so simply designed as the No. 60 Hansen Extension Lock. Ratchet action of handle eliminates the use of springs and extra parts. Entirely self-contained.



No. 65 Extension Lock  
(Left-hand)

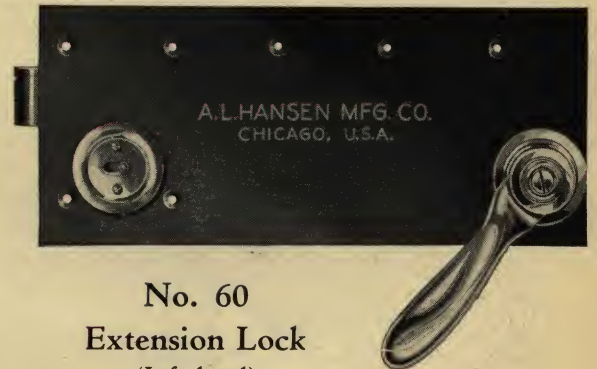
Especially designed for heavy-duty service—harder slamming, rougher treatment, heavier doors. One-piece construction. 1 1/2" hardened striker bolt. Fitted with locking device and matched rosettes. Exceptionally strong and durable.



# HANSEN EXTENSION LOCK



ABOVE—Door of AUTOCAR Cab, showing how the No. 60 Lock appears after being installed. The Regulator used is the Hansen No. 85, rust-proof.



No. 60  
Extension Lock  
(Left hand)

Above picture shows in detail the design and construction of the No. 60 One-Piece Extension Lock fitted to the AUTOCAR Cab Doors illustrated on this page. With no extra parts to assemble, but made in one piece, it is easy to install. With matched rosettes, it makes a very attractive job.



ABOVE—AUTOCAR door, before panel is in position on door frame, showing method of attaching Hansen No. 60 Lock and No. 85 Rust-Proof Window Regulator to door.

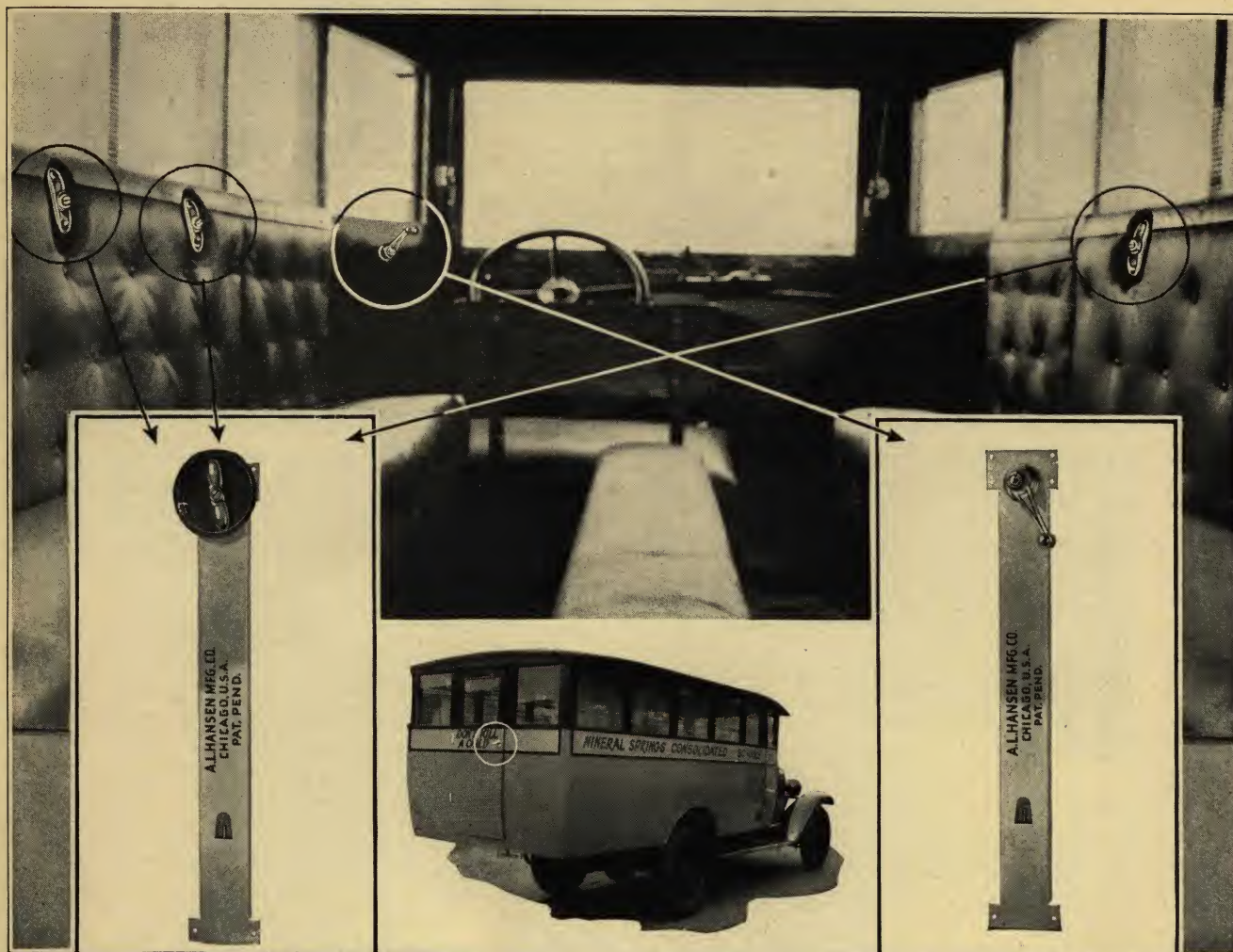


ABOVE—Completed AUTOCAR door, with panel in place, and only the nickel-plated handles of lock and regulator showing.





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No. 85 Window Regulator with wing-type handle and recessed cup. Handle is recessed in upholstery.

Pictures above show inside and outside views of school bus fitted with No. 85 Window Regulators.

No. 85 Window Regulator, crank type. Four turns of handle raise or lower window.

## HANSEN RUST-PROOF WINDOW REGULATORS

**A**T LAST! A window regulator that is RUST-PROOF! Lead-coated. All moving parts inside are enclosed in channel. These parts constantly operate in grease applied at factory. Regulator embodies the straight-up-and-down pull principle which prevents sticking or jamming and insures easier, faster operation. Regulator is made in five standard lengths. No lefts or rights. Crank or wing-type handles.

### Five Lengths No. 85 Regulators

Last Number Indicates Glass Lift in Inches	Overall Length
No. 85-18.....	22"
No. 85-20.....	24"
No. 85-22 Std.....	26"
No. 85-24.....	28"
No. 85-26.....	30"

Recess Cup for buses at extra cost.



## No. 87 Window Regulator

for School Buses,  
Cabs, Bodies

DESIGNED for cabs, bodies, sleeper cabs and buses, the No. 87 Window Regulator is used by the majority of production and custom body builders. Easily applied to all panel materials, whether steel, plywood, fibre board or imitation leather.

### Straight-up-and-down Pull Regulators Always Dependable

There will be no sticking or jamming of windows, if you use the Hansen Regulator with its dependable straight-up-and-down pull principle. The Hansen Way lifts windows easier, faster, under the most severe conditions.



*Above* —No. 86 Glass Channel and Release. May be used with either the No. 85 or No. 87 Window Regulator.

*At left* —No. 87 Window Regulator, crank type, with straight-up-and-down pull operating principle.

*At right* —No. 87 Window Regulator, wing type, which, with recessed cup, is extensively used on buses.

*Extremely durable*—In a test made to determine its durability, a Hansen Window Regulator lifted an 18-pound window 25,000 times without noticeable wear on regulator. The endless chain used in Hansen Regulators is tested to 500 pounds tensile strength.

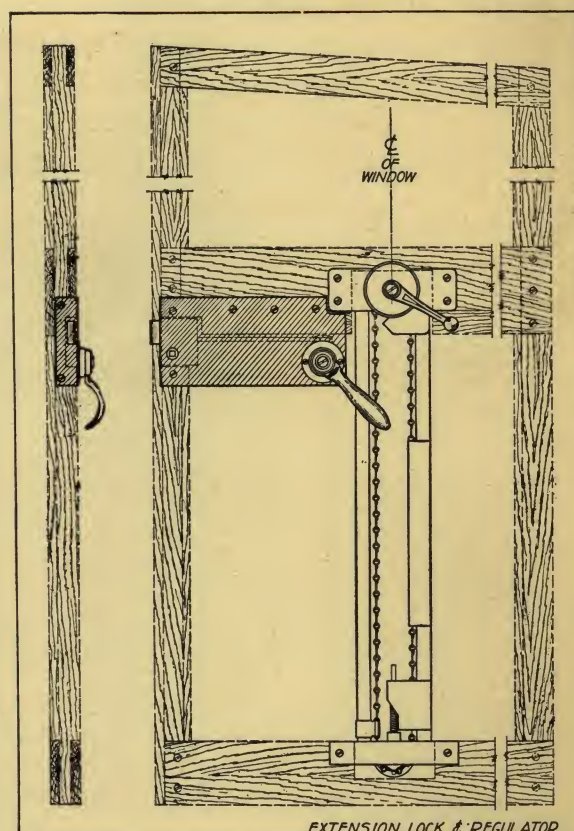


*Above*—"That finished look" is here demonstrated, showing only the nickel-plated handles and matched rosettes of the No. 87 Window Regulator and No. 60 Extension Lock.

## No. 87 Regulators Made in 5 Lengths

Last Number Indicates Glass Lift In Inches	Overall Length
No. 87-18	23 1/4"
No. 87-20	25 1/4"
No. 87-22 (Standard)	27 1/4"
No. 87-24	29 1/4"
No. 87-26	31 1/4"

Prices in index in back include glass channel, nickel-plated handle and rosette.



EXTENSION LOCK & REGULATOR

Application view of Hansen Extension Lock and Regulator showing simple method of applying to door frame.





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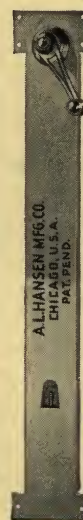
# Better Panels at Less Cost Made in Your Own Shop



No. 87 Window Regulator, crank type, with straight-up-and-down pull.

**I**T is easy and economical to make your own panels, and secure an attractively finished job, when you use Hansen Hardware. Many body builders are making neat, durable, well-finished panels in their own shop. The illustrations below are an example of how Hansen Hardware may be applied to your own-made panels, thus simplifying and speeding up their construction. The panels shown below were made by AUTOCAR. We DO NOT make panels.

Depending upon the wishes of your customers, there are various materials you can use for panels, such as imitation leather, plywood and sheet steel. If you use steel or plywood, the regulator can be attached to panel and several carried in stock flat, so that when ready to install, panel can be trimmed to proper size. If you have body steel or plywood left over from the job for the door panels, you can use this material, effecting an extra saving.



No. 85 Window Regulator, crank type, with straight-up-and-down pull.



ABOVE—How simple it is to apply the Hansen Window Regulator to your own-made panel! Also, the No. 60 Extension Lock. Both are attached to this panel made in the plant of the builder.



ABOVE—Panel made by AUTOCAR, showing handles of No. 85 Regulator and No. 60 Extension Lock, after being installed. The completed installation makes a very compact, attractive job, and will withstand the most exacting service conditions.



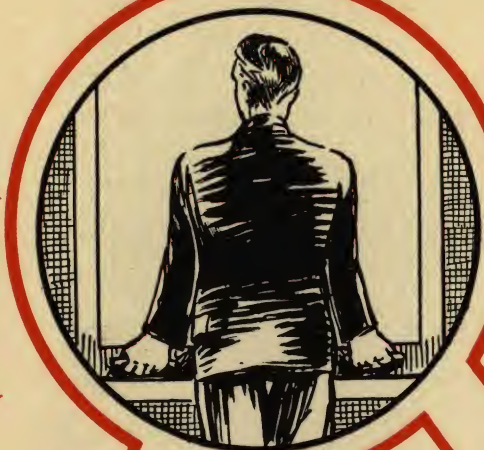
## Straight-Up-and-Down Pull Adds Dependability

YOU WOULDN'T RAISE A WINDOW THIS WAY



-BUT THIS WAY-

STRAIGHT UP



STRAIGHT UP

## STRAIGHT UP . . .

That's the "RIGHT" Way  
to Raise a Window

**T**HE Straight-up-and-Down Pull Principle makes a vast difference—in faster lifting, easier operation and longer service. This principle is a patented feature on all Hansen Regulators. It permits lifting or lowering of windows in a *straight line*.

### No Sticking or Jamming

Straight-up lift prevents side pressure. No sticking, binding or jamming against felt channels. Result—easier, faster lifting—positive, trouble-free operation.

### Strong Endless Chain

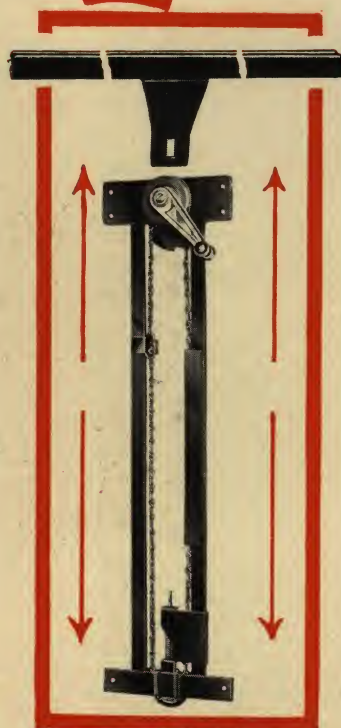
Every part in Hansen Regulators is subjected to tests that insure dependable service. The endless chain, for example, is tested to 500 pounds tensile strength and will easily lift the heaviest windows.

### Shop Tested—Job Tested

Before any Hansen Regulator is shipped, it is subjected to rigid inspection and test. In a test the Hansen Regulator lifted an 18-pound window 25000 times. The regulator showed no wear. But the test of service is the real test. Hundreds of thousands of Hansen Regulators in daily use prove their dependability.



No. 85 Regulator



No. 87 Regulator

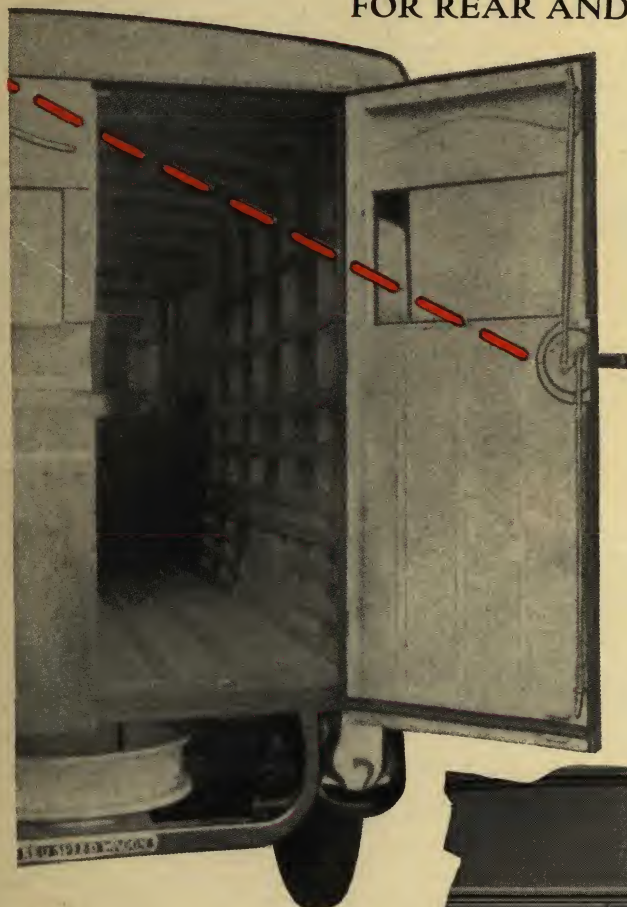




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# No. 99 **ROTARY DOOR LOCK**

FOR REAR AND SIDE DOORS



*Installation view above, showing how the No. 99 Rotary Door Lock is applied inside the door, out of weather.*

## Features

- 1 Four-point contact, drawing doors firmly and solidly together.
- 2 Makes doors solid, silent, sagless.
- 3 Locks doors at center, top and bottom.
- 4 All mechanism is inside the body.
- 5 Unique operating principle. Cam operates over roller.
- 6 All-steel, simple, rugged construction.

*All that shows of the No. 99 Rotary Door Lock outside of door is handle, as shown in illustration at right.*

**I**MPROVED, all-steel, four-point No. 99 Rotary Door Lock. Prevents sagging of double doors. Rotary action draws doors at top, bottom and center, so securely there is no rattle, sag or play. Lock is applied inside of doors. A turn of outside "T" handle operates two rods for locking or unlocking door. Makes two doors as solid as one. Among its many users are: CHEVROLET, THORNE, HEIL TANK, STANDARD TANK, YORK, MIFFLINBURG—and others.



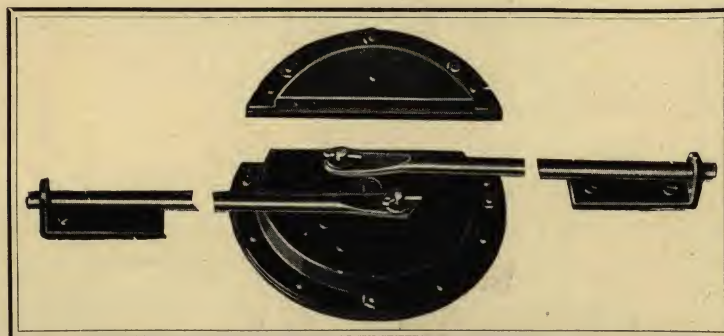
*Above view shows the rugged construction, unique design and method of attaching No. 99 Rotary Door Lock.*





## No. 99 Lock Proves Practical on Tank Bodies

**A**BOVE illustration shows ten of a fleet of fifty-seven tank bodies built by The Heil Co. and all equipped with the No. 99 Hansen Rotary Lock. Seven Locks per tank body or a total of 399. Circles on tank body in foreground show location of the No. 99 Locks used. Tank bodies shown are but a few of the many on which The Heil Co. has used this lock. It makes the door assembly tight and rattle-proof. Extensively used by foremost oil tank manufacturers and production builders. Body builders have used this lock for six years. The most popular lock from standpoint of years of service and general acceptance.



### No. 99 Rotary Door Lock

Where three-quarter doors are required, such as on truck tanks and vans, the No. 99 Rotary Door Lock is used in horizontal position as here shown and as applied to the Heil Tank pictured above.





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*The above step-and-drive truck is equipped with Hansen Sliding Door Hardware*

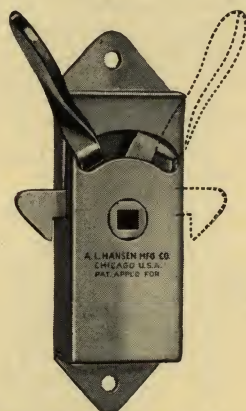
## HANSEN Sliding Door Hardware, including locks, hangers and rollers, is used on cabs and bodies of the sliding door type, such as laundry trucks, milk wagons and mail delivery trucks.

# HANSEN SLIDING DOOR HARDWARE

for Step-and-Drive Trucks

Simply designed. Easily installed. Sizes and shapes for every type of sliding door.

The milk delivery body shown above is an example of the type of truck that is proving so practicable. Hansen No. 45 Sliding Door Lock and Hangers used on the side doors. This hardware is also extensively used on laundry trucks and is now specified for mail delivery trucks. The step-and-drive truck has brought sliding door hardware back into general use.



No. 45 Sliding Door Lock



No. 24 Sliding Door Hanger





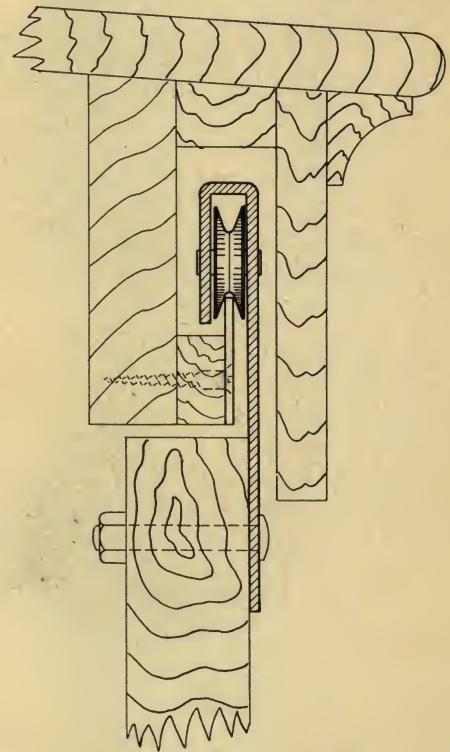
**No. 24 Sliding Door Hanger**

For doors suspended from top and hung on inside or outside of body. Hanger is straight, with no offset. Tempered steel roller,  $1\frac{1}{8}$ " in diameter. Hardened axle,  $\frac{1}{4}$ " diameter. Size, 3" wide by 4" long. No oiling or attention required. Always rolls easily. Designed to hold heaviest doors.



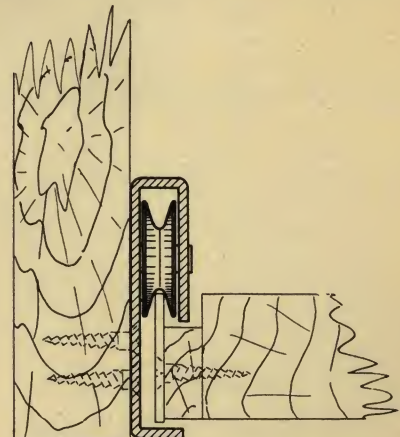
**No. 32 Sliding Door Hanger**

Strong. Compact. Economical. For sliding doors attached to outside of body, with hanger at bottom of doors and rail or track running parallel to edge of floor boards. Attaches to bottom of door. Requires no hangers at top of door. Size,  $2\frac{1}{2}$ " long by 3" wide. Diameter of roller,  $1\frac{1}{8}$ ". Diameter of axle,  $\frac{1}{4}$ ". Made for  $1\frac{1}{4}$ " track.



**Assembly of No. 24 Hanger**

Illustration above shows how easily the No. 24 All-Steel Hanger may be applied to outside of door, with door hung on outside of cab. To make track for this assembly—first, attach a piece of wood 1" by  $\frac{1}{2}$ " to head-piece, the entire length of cab. Next, screw to head-piece a piece of ordinary band iron. Track is then complete.



**Assembly Showing No. 32 Hanger**

Illustration above shows assembly of No. 32 Steel Sliding Door Hanger applied to bottom of door. To make track or rail for this hanger—attach a piece of wood 1" x  $\frac{1}{2}$ " to edge of, and running parallel to, the floor boards or sill. To this piece of wood attach a strip of band iron  $1\frac{1}{4}$ " by  $\frac{1}{8}$ ". Hanger is applied to bottom of door with three screws.





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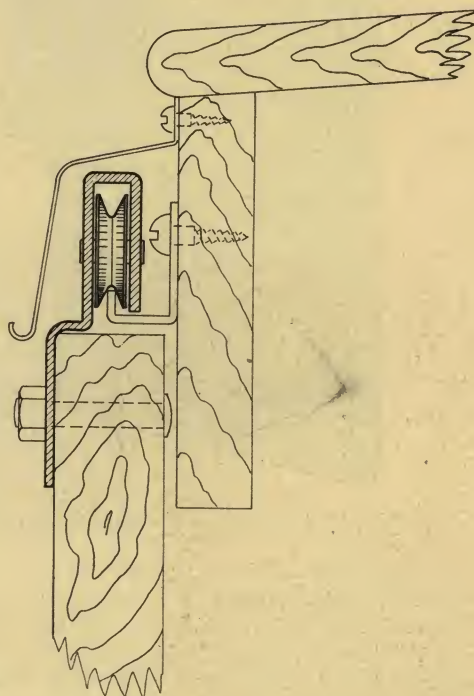


### No. 33 Sliding Door Hanger

Used principally on light truck bodies on which door is  $1\frac{1}{8}$ " thick. Holds doors up to  $1\frac{1}{2}$ " thick. Attached outside of door. Has  $\frac{9}{16}$ " offset, which brings center of roller to center of top of door. Requires very little head room between top of door and deck. Size, 3" wide,  $2\frac{3}{4}$ " high, and  $1\frac{1}{8}$ " diameter. Made of 12-gauge steel, hardened to lessen wear.

#### Assembly of No. 33 Hanger

On any standard cornice maker's brake you can make the special track required for this sliding door hanger. U-shaped rail has two legs. One leg is  $1\frac{1}{4}$ " long. The other leg is  $\frac{5}{8}$ " long. Thickness of door governs distance between the two legs. This dimension is  $\frac{3}{8}$ " for a door  $1\frac{1}{8}$ " thick.



### Assembly Showing No. 33 Hanger

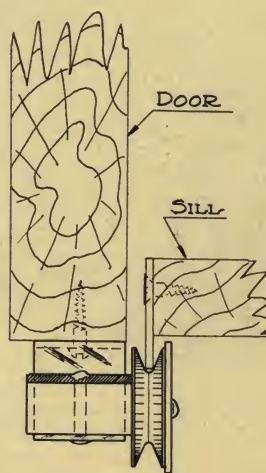


### No. 35 Retaining Roller

Consists of a piece of high carbon spring steel, a hardened axle and a V-shaped roller. Retainer spring is  $7\frac{1}{2}$ " long,  $\frac{7}{8}$ " wide and  $\frac{1}{16}$ " thick. It is riveted to a hardened axle to which a V-shaped roller is attached. Roller is constantly in contact with the steel rail, which is attached to edge of floor boards. Roller absorbs shocks to door and prevents rattle and play of doors. Used with Nos. 24, 32 and 33 sliding door hangers.

#### Assembly No. 35 Retaining Roller

Attached to bottom edge of door. In constant contact with bottom track. Exerts a constant, even tension on door. Two rollers required for each door. To make track, attach a piece of band iron to edge of floor boards or sill. Band iron should project at least  $\frac{3}{8}$ " below bottom of floor boards and should be  $\frac{1}{8}$ " thick.



### No. 35 Retaining Roller Assembly

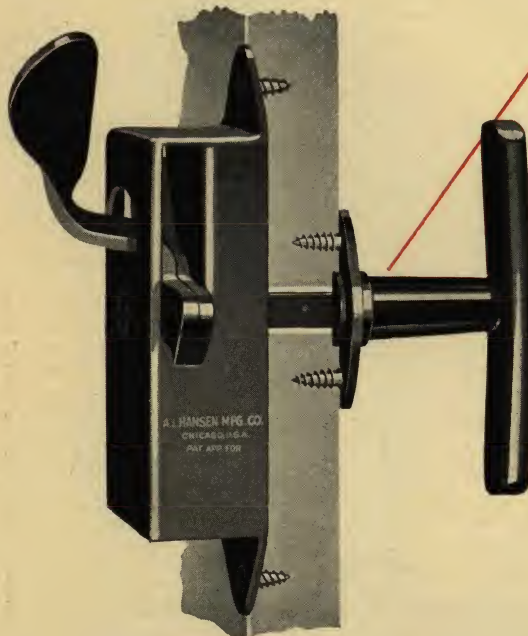


## Application Views Showing How Easy It Is to Apply Hansen Sliding Door Hardware

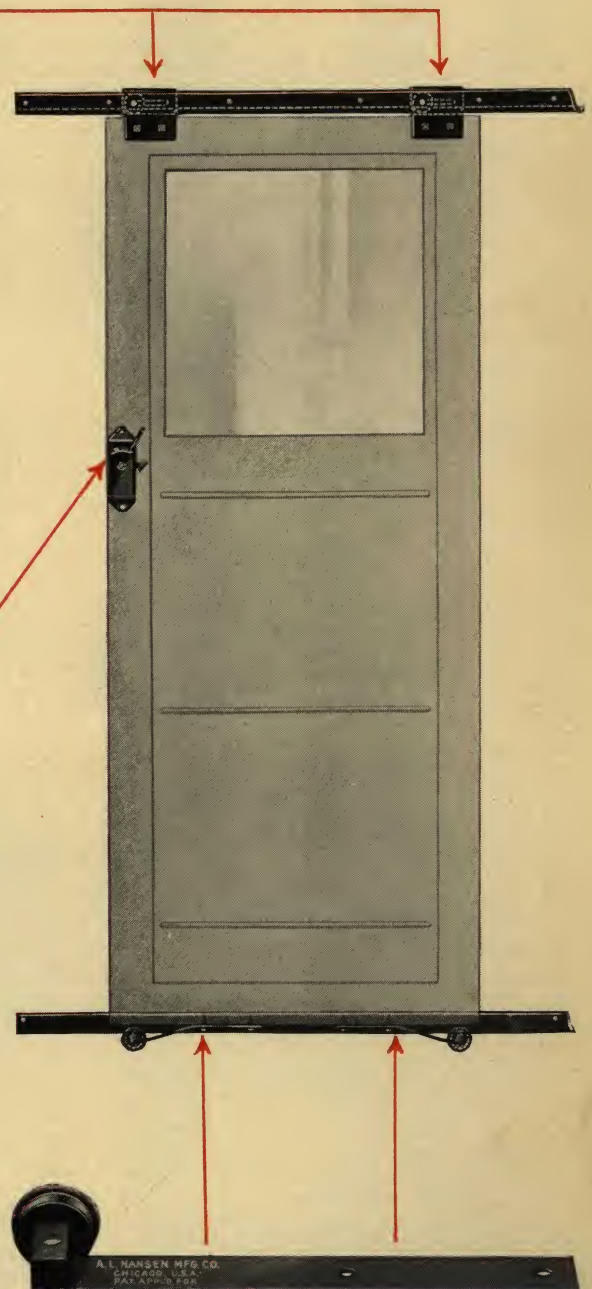
Arrows pointing from the No. 24 Sliding Door Hanger, the No. 45 Sliding Door Lock and No. 35 Retaining Roller, and their application as pictured on door illustration, show how easy it is to apply Hansen Sliding Door Hardware. Installation is compact and neat in appearance.



No. 24  
Sliding  
Door  
Hanger



No. 45 Sliding Door Lock



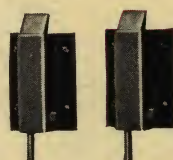
No. 35 Retaining Roller





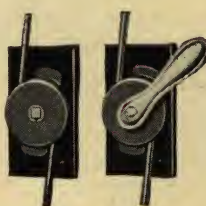
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# HANSEN SLAMMING SIDE AND REAR DOOR LOCKS



## No. 90 With Hook

Opens from inside of door. Used in many ways—on single left-hand rear doors, tool boxes, tail gates, and often with No. 99 Rotary Rear Door Lock and No. 97 three-point Slamming Lock.



## No. 93 Lock

For side or rear door. Complete with rods to be cut off for door size. Inside handle included. A practical, durable lock.

## No. 94 Lock

For single side or rear door. Complete with rods to be cut off for door size. Economical.

## No. 95 Lock

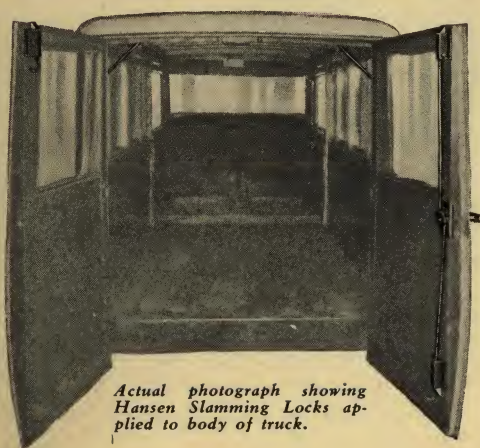
Custom and production body builders use this lock extensively. Easy to install.

## No. 96 Lock

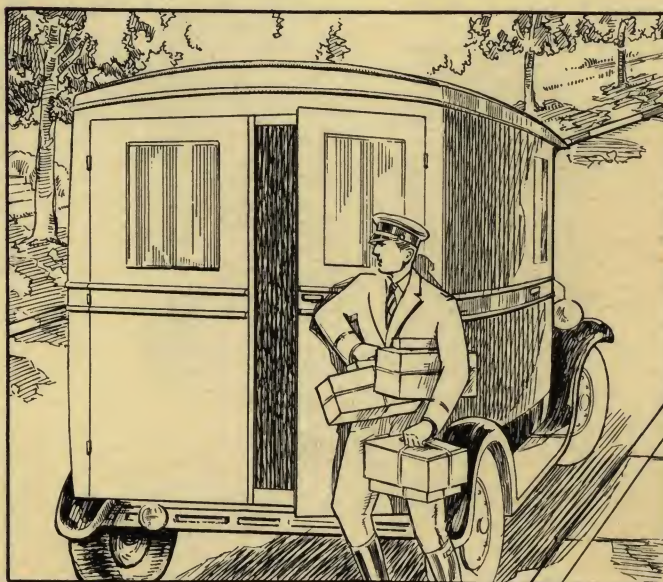
Practical lock for double side or rear doors. Inside handle for left hand door included.

## No. 97 Lock

Three point Slamming Lock. Striker bolt in center mechanism is 1 1/2" wide. Made for service.

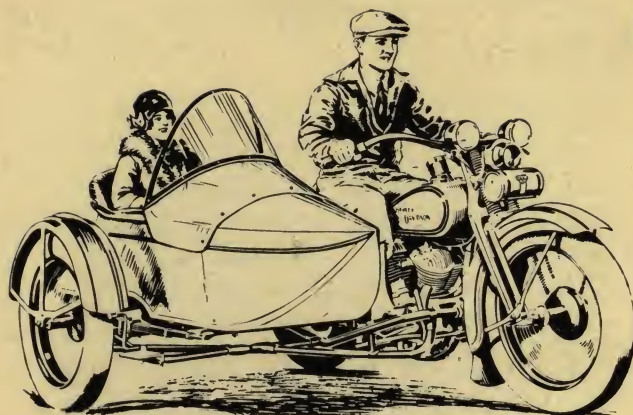


Actual photograph showing Hansen Slamming Locks applied to body of truck.



The simplicity of the SLAMMING Door Lock and its ease of application shown in the above view. Leading body builders are using this lock as standard equipment.





## HANSEN HARDWARE FOR MOTORCYCLE-SIDECARS

**T**HE HANSEN Line includes hardware for MOTORCYCLE-SIDECARS. The items included are Motorcycle Sidecar Locks, Toolbox Locks and Keyhole Escutcheons, as pictured on this page. In practical use many years by leading motorcycle-sidecar manufacturers, these products have, like all Hansen hardware, proved their value . . . serviceability . . . convenience . . . and popularity in *actual use!*



### No. 36 Keyhole Escutcheon

Fastens to outside of tool box door and fits over bushing. Top movable part neatly and completely covers bushing. Made of brass and attractively nickel-plated.



### No. 46 Tool Box Lock for Motorcycle Sidecar

Attaches to inside of tool box. Two screws applied at each end fasten lock in place. After door is closed flush with outside of tool box, a square piece of metal (for use as a handle) is inserted in bushing. A turn of this metal engages latch and fastens door. Size of lock, 3" x 1".



### No. 53 Motorcycle Sidecar Lock

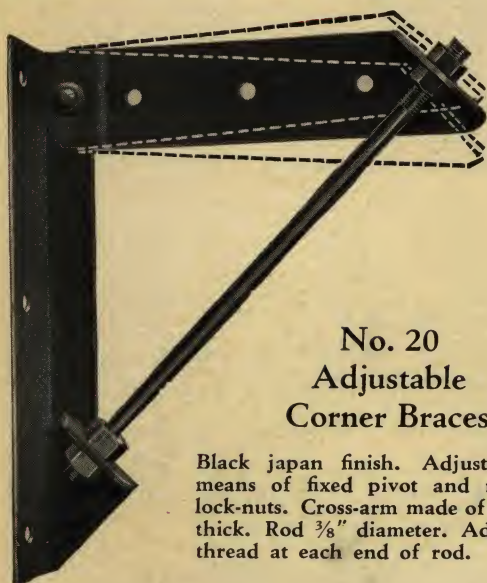
Especially adapted for use on doors of motorcycle-sidecars. Flange of lock is offset  $\frac{1}{4}$ " to permit room for operating lever. Lock body made of steel. Compression spring holds striker bolt in place. Lock in use fifteen years. Used by many well-known motorcycle manufacturers. A simple lock that serves its purpose well. Size,  $2\frac{7}{8}$ " x  $2\frac{3}{8}$ ".





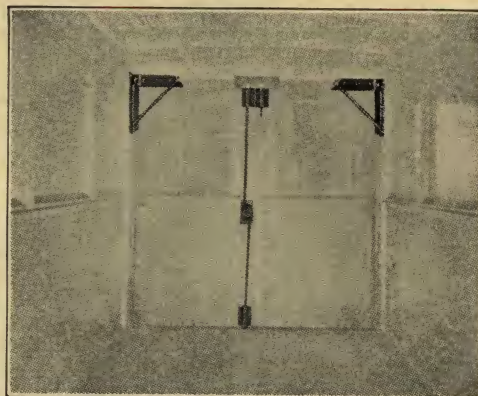
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# HANSEN ADJUSTABLE CORNER BRACES

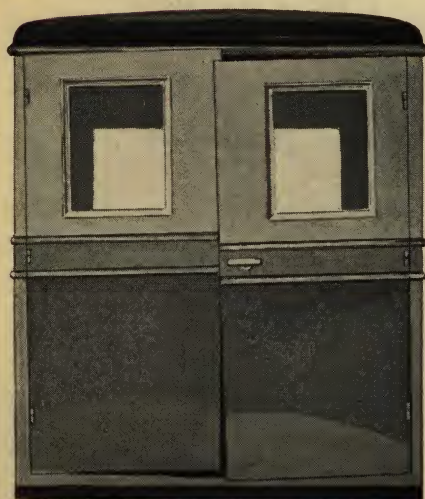


**No. 20  
Adjustable  
Corner Braces**

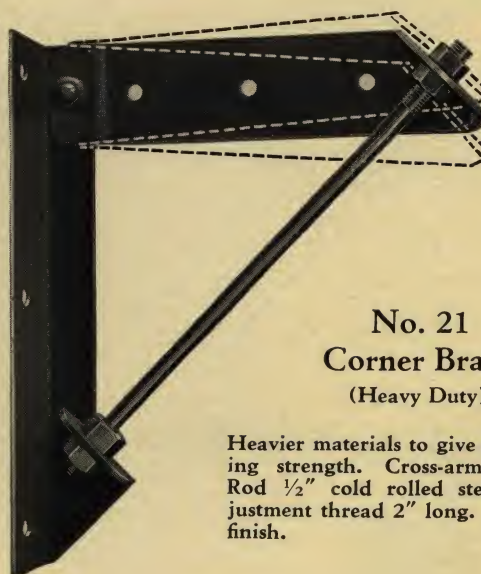
Black japan finish. Adjustment by means of fixed pivot and rod with lock-nuts. Cross-arm made of steel  $\frac{1}{8}$ " thick. Rod  $\frac{3}{8}$ " diameter. Adjustment thread at each end of rod.



*Interior view of body showing corners braced with No. 20 Adjustable Corner Braces.*



**Don't  
Let  
Your  
Bodies  
Sag  
Like  
This**



**No. 21  
Corner Brace  
(Heavy Duty)**

Heavier materials to give greater bracing strength. Cross-arm,  $\frac{3}{8}$ " steel. Rod  $\frac{1}{2}$ " cold rolled steel, with adjustment thread 2" long. Black japan finish.



*Interior of body showing corners braced with No. 18 Double Angle Corner Braces.*



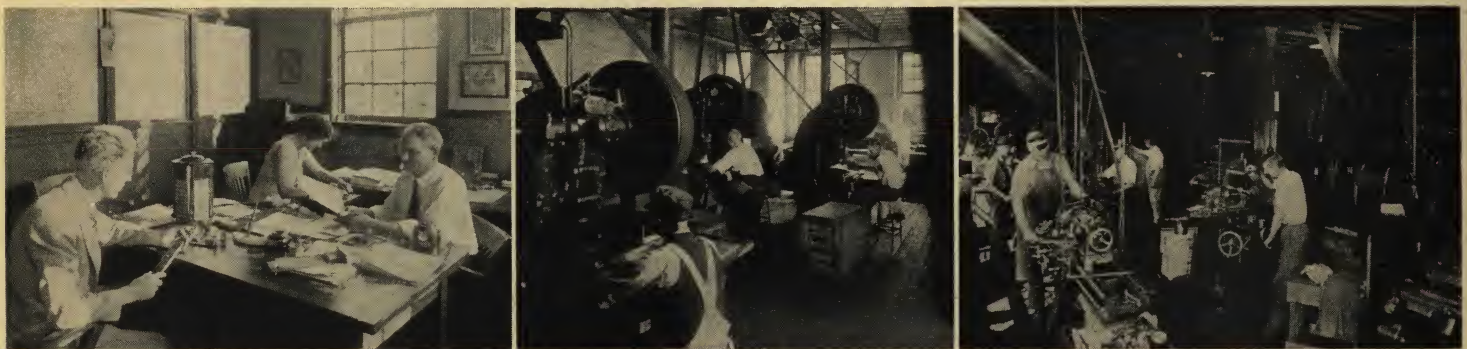
**No. 18  
Corner  
Brace  
(Double Angle)**

Braces both sides of corner. Cross-arms  $\frac{1}{8}$ " steel.  $\frac{3}{8}$ " rod with adjustment thread 2" long. Black japan finish.





*Shipping Department showing completeness of stocks which make possible 24-hour service on all stock shipments*



*These pictures show how Hansen designs originate and the modern methods used in the production, packing and shipment of Hansen products*





A.L. HANSEN MFG. CO. 5037 RAVENSWOOD AVE., CHICAGO, ILL.

# HANSEN



# DEPENDABILITY

**T**ODAY—with commercial bodies being put to severe tests due to unusual service conditions, it is vitally important to have Hansen Hardware—for it withstands every test to which subjected.

Quick starting—sudden stopping—rough roads—heavier loads—faster speeds—demand unusually strong body construction. Adjustable Corner Braces are available to help meet this requirement.

Locks must withstand continual usage and abuse, and to do this must be especially designed to meet exacting service—must be simple, durable, dependable. Hansen locks meet these specifications.

When a lock, regulator or corner brace outlasts the body on which it is installed—when it seldom if ever needs attention—it has done all that is required of it. Hansen Hardware does this—and more!

## A. L. HANSEN MFG. CO.

5037 Ravenswood Avenue  
CHICAGO, ILL.

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Cable Address  
ALHANSENCO  
All Codes





## INDEX AND PRICE LIST

### REFRIGERATOR HARDWARE

Page		List Price
4-5	No. 66 Slam & Take-Up Lock .....	\$12.50 Each
6	No. 67 Refrigerator Lock (outside parts only) .....	13.50 Each
6	No. 68 Refrigerator Lock .....	17.50 Each
7	No. 69 Refrigerator Lever Lock .....	10.00 Each
8	No. 70 Refrigerator Lock .....	18.00 Each
9	No. 70-D Refrigerator Lock (double doors) .....	18.00 Each
10	No. 69-A Refrigerator Lock .....	15.00 Each
11	No. 8 Refrigerator Hinge (steel) .....	1.75 Each
11	No. 12 Refrigerator Hinge (steel) .....	2.00 Each
11	No. 15 Refrigerator Hinge (malleable) .....	2.00 Each
11	No. 16 Refrigerator Hinge (steel) .....	2.50 Each
11	No. 19 Refrigerator Hinge (steel) .....	3.00 Each

### HANDLES

12	No. 71 Offset Handle (japanned) .....	\$ .75 Pair
12	No. 71 Offset Handle (nickel plated) .....	1.25 Pair
12	No. 71 Offset Handle (chrome plated) .....	1.50 Pair
12	No. 72 Handle (with locking bars) .....	.60 Each
12	No. 73 "T" Handle (embossed) .....	Price on Request
12	No. 75 "T" Handle (japanned) .....	.50 Pair
12	No. 75 "T" Handle (nickel plated) .....	1.00 Pair
12	No. 77 "T" Handle (japanned) .....	.75 Pair
12	No. 77 "T" Handle (nickel plated) .....	1.25 Pair
12	No. 79 "T" Handle (embossed) .....	Price on Request

### CAB LOCKS

15	No. 54 Cab Lock .....	\$ 1.30 Pair
15	No. 55 Cab Lock .....	1.50 Pair
15	No. 57 Cab Lock .....	1.25 Pair
15	No. 58 Cab Lock .....	1.25 Pair
16	No. 59 Cab Lock .....	2.00 Pair
16	No. 60 Extension Lock .....	3.75 Pair
16	No. 63 Mortise Lock .....	2.50 Pair
16	No. 65 Extension Lock (heavy duty) .....	4.25 Pair





A.L. HANSEN MFG. CO. 5037 RAVENSWOOD AVE., CHICAGO, ILL.

## INDEX AND PRICE LIST

### WINDOW REGULATORS

Page		List Price
18	No. 85 Regulator (Enclosed Type)—18"-20"-22" glass lift	\$ 2.50 Each
18	No. 85 Regulator (Enclosed Type)—24" glass lift	2.75 Each
18	No. 85 Regulator (Enclosed Type)—26" glass lift	3.00 Each
18	No. 6 Recessed Cup	.75 Each
19	No. 86 Glass Channel and Release	.60 Each
19	No. 87 Regulator—18"-20"-22" glass lift	2.75 Each
19	No. 87 Regulator—24" glass lift	3.00 Each
19	No. 87 Regulator—26" glass lift	3.25 Each

### ROTARY DOOR LOCKS

22	No. 99 Rotary Rear Door Lock	\$ 2.50 Each
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### SLIDING DOOR HARDWARE

25	No. 24 Sliding Door Hanger	\$ 1.00 Pair
25	No. 32 Sliding Door Hanger	.87 Pair
26	No. 33 Sliding Door Hanger	.87 Pair
26	No. 35 Retaining Rollers	.75 Pair
27	No. 45 Sliding Door Lock	1.62 Pair

### SLAMMING DOOR LOCKS

28	No. 90 Slamming Bolt (with hook attachment)	\$ .75 Each
28	No. 93 Slamming Door Lock	2.25 Each
28	No. 94 Slamming Door Lock	2.00 Each
28	No. 95 Slamming Door Lock	2.50 Each
28	No. 96 Slamming Door Lock	4.00 Each
28	No. 97 Three Point Slamming Lock	3.75 Each

### MOTORCYCLE SIDECAR LOCKS

29	No. 36 Keyhole Escutcheon	\$ .25 Each
29	No. 46 Tool Box Lock with Striker Plate	.35 Each
29	No. 53 Motorcycle Sidecar Lock	1.25 Pair

### ADJUSTABLE CORNER BRACES

30	No. 18 Adjustable Corner Brace (double angle)	\$ 3.00 Pair
30	No. 20 Adjustable Corner Brace	1.50 Pair
30	No. 21 Adjustable Corner Brace (heavy duty)	1.75 Pair



